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# Water Supply Outlook For Wyoming



SOIL CONSERVATION SERVICE  
U.S. DEPARTMENT OF AGRICULTURE

Cooperating with

STATE ENGINEER of WYOMING

AS OF  
MAR. 1, 1979



## TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season will interact with a resultant average effect on runoff. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent at surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1900 snow courses in Western United States and in the Columbia Basin in British Columbia. Networks of automatic snow water equivalent and related data sensing devices, along with radio telemetry are expanding and will provide a continuous record of snow water and other parameters at key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data on reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

*COVER PHOTO: VIEW OF A SNOTEL DATA SITE IN THE SNOWY RANGE IN WYOMING. TALL CYLINDRICAL DEVICE IS A PRECIPITATION GAGE. SNOW PILLOWS ON THE GROUND NOT VISIBLE DUE TO SNOW COVER. SHELTER HOUSE, ANTENNA TOWER, ANTENNA, AND TEMPERATURE UNIT ARE VISIBLE BEHIND THE PRECIPITATION GAGE.*

### PUBLISHED BY SOIL CONSERVATION SERVICE

The Soil Conservation Service publishes reports following the principal snow survey dates from January 1 through June 1 in cooperation with state water administrators, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Soil Conservation Service, West Technical Service Center, Room 510, 511 N.W. Broadway, Portland, Oregon 97209.

Copies of state and local reports may also be obtained from state offices of the Soil Conservation Service in the following states:

STATE	ADDRESS
Alaska	Room 129, 2221 East Northern Lights Blvd., Anchorage, Alaska 99504
Arizona	Room 3008, Federal Building, 230 N. First Ave., Phoenix, Arizona 85025
Colorado (N. Mex.)	P. O. Box 17107, Denver, Colorado 80217
Idaho	Room 345, 304 N. 8th. St., Boise, Idaho 83702
Montana	P. O. Box 98, Bozeman, Montana 59715
Nevada	P. O. Box 4850, Reno, Nevada 89505
Oregon	1220 S. W. Third Ave., Portland, Oregon 97204
Utah	4420 Federal Bldg., 125 South State St., Salt Lake City, Utah 84138
Washington	360 U. S. Court House, Spokane, Washington 99201
Wyoming	P. O. Box 2440, Casper, Wyoming 82602

### PUBLISHED BY OTHER AGENCIES

Water Supply Outlook reports prepared by other agencies include a report for California by the Snow Surveys Branch, California Department of Water Resources, P.O. Box 388, Sacramento, California 95802 --- for British Columbia by the Ministry of the Environment, Water Investigations Branch, Parliament Buildings, Victoria, British Columbia V8V 1X5 --- for Yukon Territory by the Department of Indian and Northern Affairs, Northern Operations Branch, 200 Range Road, Whitehorse, Yukon Territory Y1A 3V1 --- and for Alberta, Saskatchewan, and N.W.T. by the Water Survey of Canada, Inland Waters Branch, 110-12 Avenue S.W., Calgary, Alberta T3C 1A6.



and  
FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

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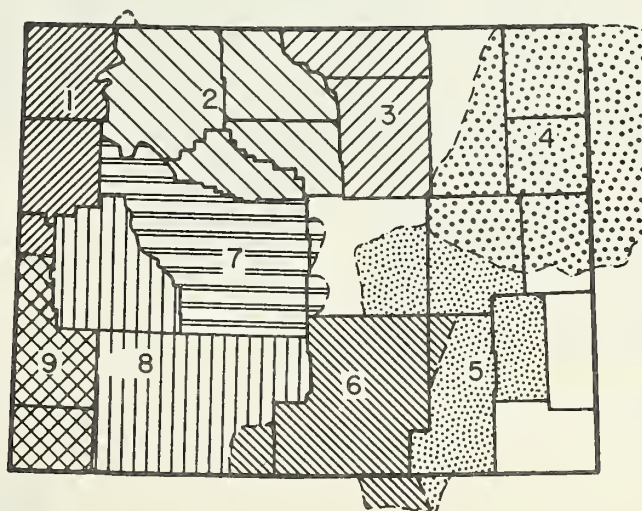
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Basic Data Supplement 1 - Snow data

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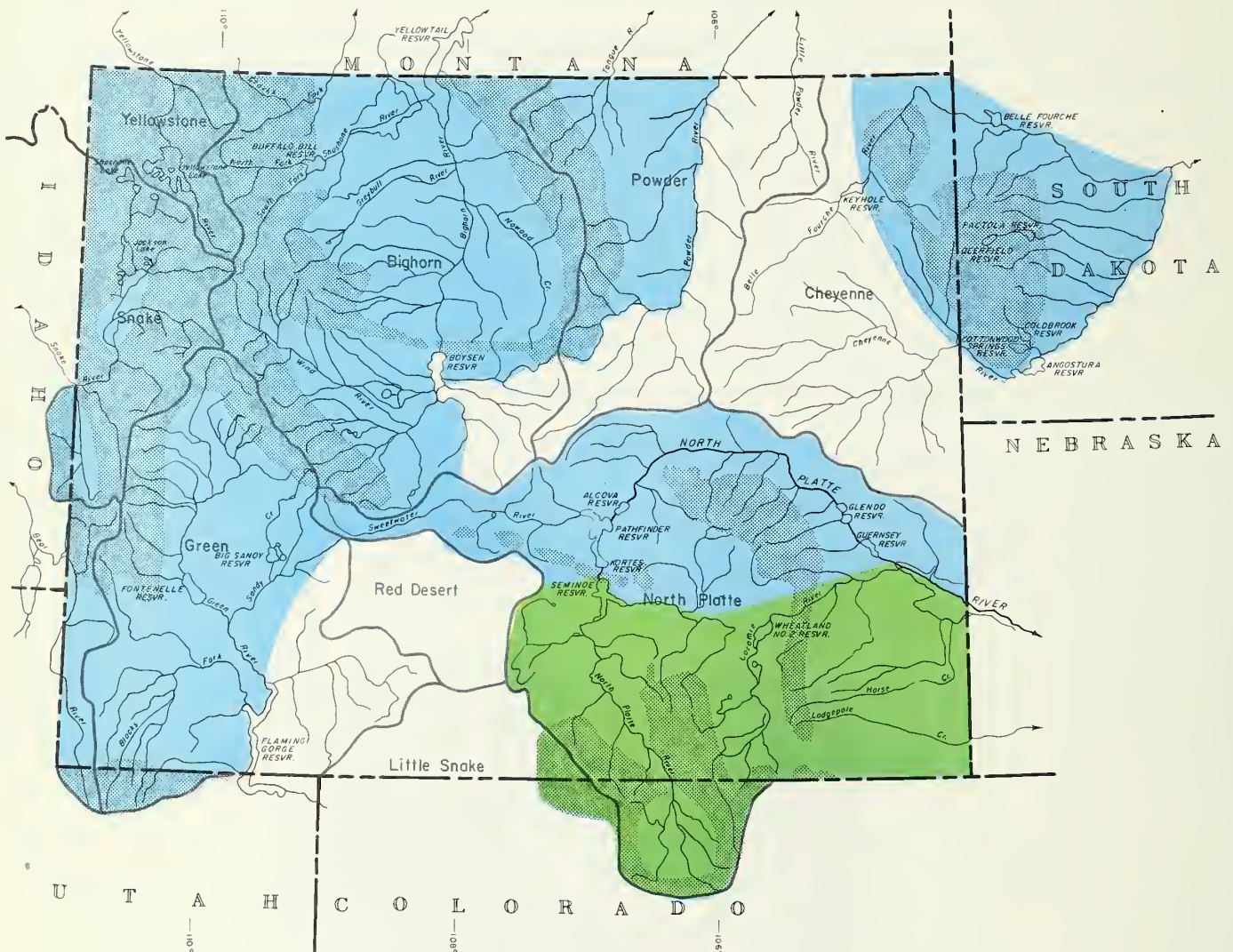
WATERSHED AREA LOCATIONS



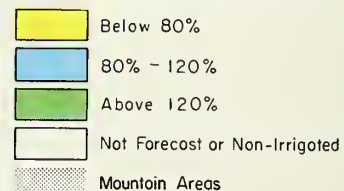
# PROSPECTIVE WATER SUPPLIES FOR WYOMING SPRING AND SUMMER PERIOD

March 1, 1979

50 0 50 MILES  
SCALE 1 : 4,250,000



FORECAST STREAM FLOW  
In Percent of 1963-77, 15 Year Average





# WYOMING SUMMARY

as of  
MARCH 1, 1979

\* \* \* \* \*

\*  
\* Generally, adequate water supplies  
\* are forecast for the spring and  
\* summer months in Wyoming. Snow-  
\* packs remain good in spite of  
\* light snowfalls during the month.  
\*  
\* \* \* \* \*

## SNOWPACK

Mountain snowfall during February slowed somewhat compared to the period before February 1. Most areas of the state, however, still have near to above average snowpacks. The upper North Platte is 28 percent above normal. Southwestern and western parts of the state have had only slight decreases and remain near normal. The Bighorn and Black Hills snowpacks have decreased 10 to 28 percent since February 1, but are still near average for March 1. The lower North Platte is lowest at 11 percent below average. A significant increase was noted in the Yellowstone and Madison drainages which are now up to within 10 percent of the normal snowpack.

## PRECIPITATION

February was generally a dry month at low elevation precipitation stations. Precipitation was slightly above normal in the extreme northeast. Heavy precipitation was reported in some western areas of the state. Elsewhere across the state precipitation was 50 to 100 percent of normal.

.... continued next page



Snow measuring sites  
...then and now

Seasonal precipitation totals indicate very wet conditions in the southern Absaroka Range and the Platte basin near the Nebraska line. Below normal conditions have prevailed in the Great Divide Basin, and the Powder River Basin has also shown precipitation to be 50 to 75 percent of normal. In spite of low precipitation amounts, a heavy snow cover is still prominent over much of the state.

#### STREAMFLOW

Spring and summer runoff volumes are forecast near to above average for most of the state, in spite of light snowfalls causing a few decreases compared to February 1 projections. Lowest forecasts are for streamflows in the lower North Platte and the Bear River in the southwestern corner of the state. Highest volumes in relation to normal are expected in the upper Platte and Little Laramie Rivers (130 and 145 percent respectively). All forecasts, however, will be influenced by the snowfalls during March.

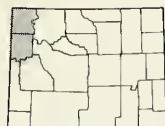
#### RESERVOIR STORAGE

Current reservoir storage in Wyoming's irrigation reservoir systems is good. The 13 largest reservoirs currently contain 56 percent of their usable capacity. This is 3 percent above the March 1 average.

# WATER SUPPLY OUTLOOK FOR THE CONSERVATION DISTRICTS IN THE SNAKE, MADISON AND UPPER YELLOWSTONE RIVER WATERSHEDS IN WYOMING

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE  
WATER RESOURCES DIVISION

MARCH 1, 1979



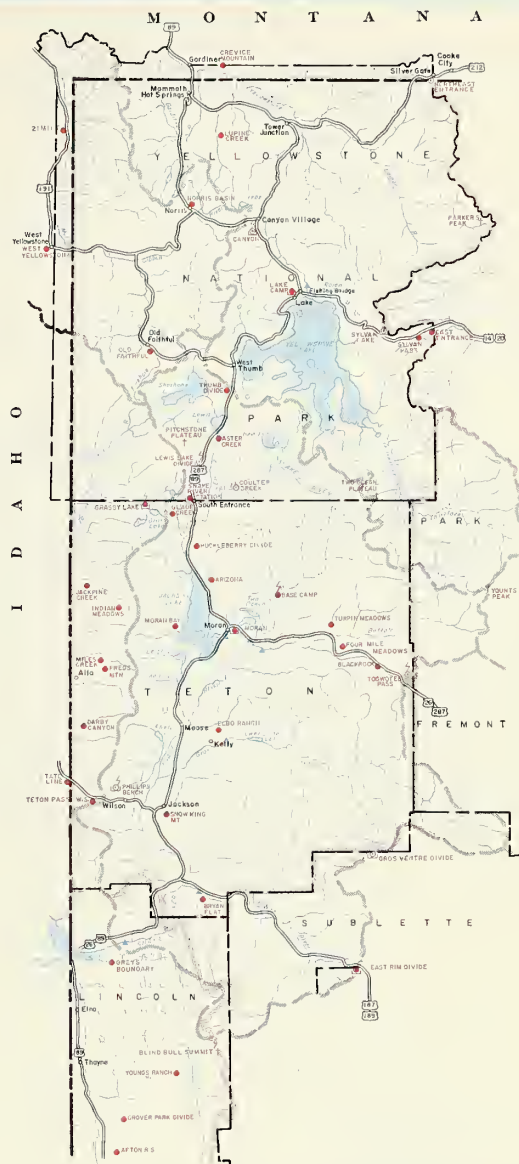
LOCATION MAP



## LEGEND

- SNOTEL
- Snow Course
- Snow Sensor
- Aerial Marker (A)
- Storage Precipitation Gage (P)
- Stream Gaging Station
- Drainage
- Highway
- Conservation District Boundary
- Watershed Boundary

0 10 20 MILES  
SCALE 1:1,815,000



## YOUR WATER SUPPLY

AVERAGE WATER SUPPLIES ARE FORECAST FOR THE SNAKE, MADISON AND UPPER YELLOWSTONE RIVER WATERSHEDS. FEBRUARY PRECIPITATION WAS NEAR THE MONTHLY AVERAGE THROUGHOUT THE AREA AND VOLUME FORECASTS CHANGED VERY LITTLE FROM LAST MONTH. RESERVOIR STORAGE ON THE SNAKE IS AT THE MARCH 1 AVERAGE.



# SNAKE, MADISON AND UPPER YELLOWSTONE RIVER WATERSHEDS

## STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year**	Average †
Yellowstone River at Yellowstone Lake Outlet	740	86	Apr-Sept	852	860
Snake River near Moran (1)	870	96	Apr-Sept	950	903
Snake River above Palisades near Alpine (1)	2650	96	Apr-Sept	-	2755
Snake River at Heise (2)	4080	96	Apr-Sept	5028	4247
Pacific Creek at Moran	175	96	Apr-Sept	-	182*
Greys River above Palisades	420	104	Apr-Sept	-	403
Salt River above Palisades near Etna	400	99	Apr-Sept	-	405
Palisades Reservoir Inflow	3750	97	Apr-Sept	4698	3863
Swift Creek near Afton	- Not Forecast -		May-Sept		

(1) Observed flow plus change in storage in Jackson Lake.

(2) Observed flow plus change in storage in Jackson Lake and Palisades Reservoir.

\*\* Measured flows for last year are U.S. Geological Survey provisional figures subject to revision.

\* Average contains less than 15 years

## SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

## RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF		RESERVOIR	Usable Capacity	Usable Storage		
		Last Year	Average †			This Year	Last Year	Average †
Madison (Wyo. only)	4	69	94	Grassy Lake	15.1	12.8	8.9	10.6
Yellowstone (Wyo. only)	11	70	92	Jackson Lake	847.0	558.6	333.2	615.5
Snake ab. Jackson Lake	11	79	106	Palisades	1200.0	987.9	294.9	903.6
Pacific Creek	3	69	94					
Buffalo Creek	6	73	101					
Gros Ventre River	3	77	102					
Hoback River	7	84	121					
Greys River	4	69	108					
Salt River	5	71	106					

+ 1963-1977 period.

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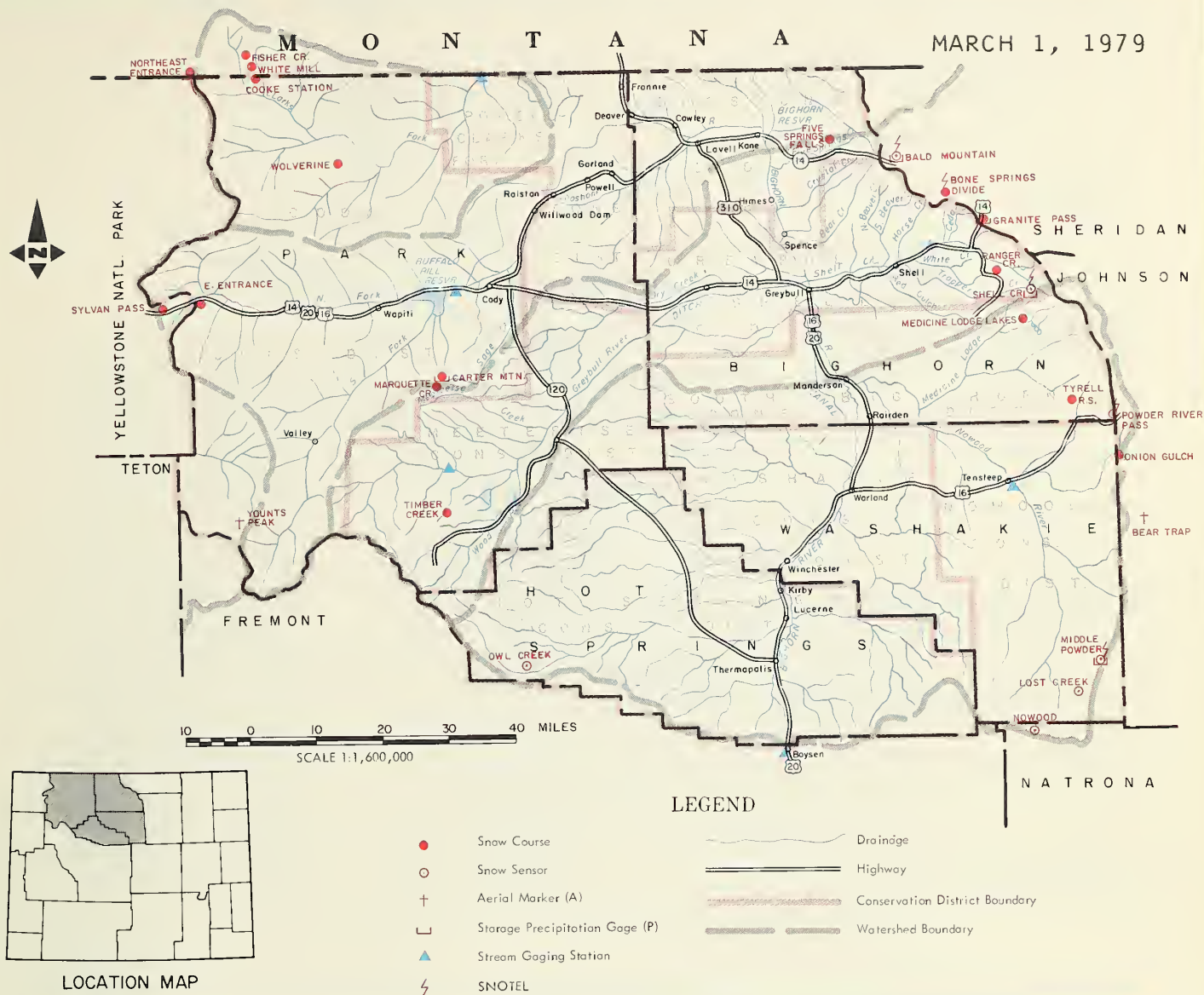


# FIRST CLASS MAIL

"The Conservation of Water begins with the Snow Survey"

# WATER SUPPLY OUTLOOK FOR THE CONSERVATION DISTRICTS IN THE BIGHORN BASIN IN WYOMING

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE



## YOUR WATER SUPPLY

NEAR AVERAGE STREAMFLOWS ARE FORECAST FOR MOST OF THE BIGHORN BASIN, THE SNOWPACK IS GENERALLY ABOVE NORMAL AT THE LOWER ELEVATIONS AND BELOW NORMAL IN THE HIGHER AREAS. THE INCREASE DURING THE MONTH WAS LESS THAN NORMAL AND STREAMFLOW FORECASTS HAVE BEEN REDUCED FROM FEBRUARY 1. RESERVOIR STORAGE IS ABOVE THE MARCH 1 AVERAGE.

# BIGHORN BASIN

## STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year **	Average †
Wind River below Boysen (1)	1190	100	Apr-Sept	1332	1193
Tensleep Creek near Tensleep	71	81	Apr-Sept	-	88*
Medicine Lodge Creek near Hyattville	20	87	Apr-Sept	-	23*
Shell Creek near Shell	75	95	Apr-Sept	97	79
Greybull River at Meeteetse	236	104	Apr-Sept	222	226
Shoshone River below Buffalo Bill Dam (2)	880	102	Apr-Sept	1037	864
Clarks Fork near Belfry	585	96	Apr-Sept	-	608

(1) Observed flow plus change in storage in Bull Lake, Pilot Butte and Boysen Reservoirs; plus diversion to Wyoming Canal.

(2) Observed flow plus change in storage in Buffalo Bill Reservoir and diversion to Heart Mountain Canal.

\*\* Measured flows for last year are U.S. Geological Survey provisional figures subject to revision.

\* Average contains less than 15 years

## SUMMARY OF SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average †
Clarks Fork	6	78	103
Shoshone	5	75	99
Nowood	5	81	98
Shell	4	72	96
Greybull	2	214	130

## SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST REC.
	Date of Survey	Snow Depth (In.)	Water Cont (In.)	Water Content (inches) Last Yr. Ave †
Bald Mountain	3/02	60	18.1	26.3 19.3
Bear Trap Aerial	3/01	30	6.9	9.5 7.9
Bone Spring Divide	3/02	57	16.0	19.2 15.9
Carter Mountain	2/27	23	4.4	2.0 3.7
Cooke Station	3/02	81	19.3	27.0 18.0
East Entrance	3/02	40	10.7	15.1 9.7
Fisher Creek	3/02	117	33.3	41.7 34.3
Five Springs Falls	2/28	26	5.9	10.5 7.3
Marquette Creek	2/27	29	5.8	3.2 -
Medicine Lodge Lakes	3/01	41	11.5	14.0 9.9
Middle Powder	2/25	32	6.4	8.8 9.7
Northeast Entrance	3/03	41	10.6	13.4 9.1
Onion Gulch	3/01	30	7.4	8.5 7.8
Owl Creek	2/28	22	3.5	3.2 3.9
Powder River Pass	3/01	39	10.8	13.2 10.2
Ranger Creek	3/01	37	8.5	10.9 8.7
Shell Creek	3/01	48	11.3	18.1 12.5
Sylvan Pass	3/02	46	11.6	17.8 12.2
Timber Creek	3/02	18	3.5	1.7 2.4
Tyrell Ranger Station	3/01	32	8.0	9.7 7.5
White Mill	3/02	98	25.0	32.3 25.0
Wolverine	2/27	49	15.8	16.2 10.7
Younts Peak Aerial	3/03	54	16.2	23.8 19.4

## RESERVOIR STORAGE (Thousand Ac. Ft.)

END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average †
Boysen	549.9	308.2	298.6	311.5
Buffalo Bill	373.1	176.5	148.5	173.3
Bighorn	613.7	839.5	820.8	-
Upper Sunshine	53.0	48.7	23.5	-
Lower Sunshine	58.9	21.0	8.8	-

+ 1963-1977 period

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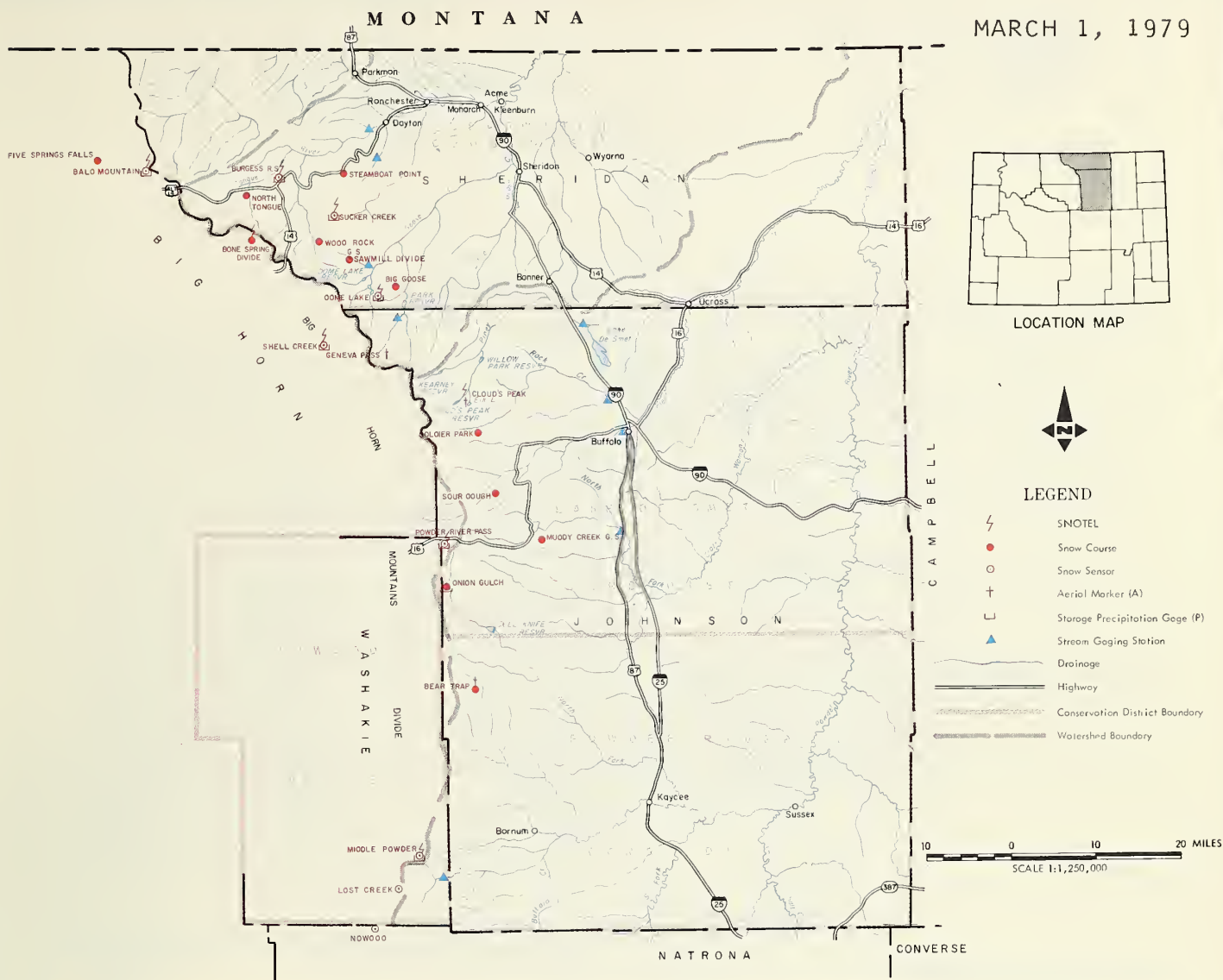
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"The Conservation of Water begins with the Snow Survey"



M O N T A N A

MARCH 1, 1979



## YOUR WATER SUPPLY

NEAR AVERAGE WATER SUPPLIES ARE FORECAST FOR THE POWDER RIVER BASIN AND TONGUE WATERSHED DURING THE SPRING AND SUMMER MONTHS. MOUNTAIN SNOWPACK ACCUMULATIONS WERE BELOW NORMAL DURING FEBRUARY AND FORECAST VOLUMES HAVE DECLINED FROM LAST MONTH. THE SNOWPACK IS CURRENTLY WITHIN TEN PERCENT OF THE MARCH 1 AVERAGE THROUGHOUT THE BASIN.

# POWDER AND TONGUE RIVER WATERSHEDS

## STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average †
Tongue River near Dayton	118	91	Apr-Sept	174	129
Middle Fork Powder River near Barnum	20	90	Apr-Sept	33	22
North Fork Powder River near Hazelton	10.7	100	Apr-Sept	17.8	10.7
Clear Creek near Buffalo	40	103	Apr-Sept	67	39
Rock Creek near Buffalo	25	96	Apr-Sept	34	26
Piney Creek at Kearny	51	89	Apr-Sept	109	57

\*\* Measured flows for last year are U.S. Geological Survey provisional figures subject to revision.  
 \* Less than 15 years of record.

## SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average †
Tongue River	9	82	95
Goose Creek	3	78	95
Clear Creek	3	88	110
Crazy Woman Creek	3	87	108
Powder River	5	85	96

## SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST REC.	
	Date of Survey	Snow Depth (in.)	Water Cont (in.)	Water Content (inches)	
				Last Yr.	Ave.†
Bald Mountain	3/02	60	18.1	26.3	19.3
Bear Trap Aerial	3/01	30	6.9	9.5	7.9
Big Goose	3/02	27	6.1	6.1	6.2
Bone Spring Divide	3/02	57	16.0	19.2	15.9
Burgess Ranger Station	3/02	28	6.8	8.3	7.1
Cloud's Peak Aerial	3/01	27	6.8	8.9	9.6
Dome Lake	3/02	32	8.1	8.3	8.2
Five Springs Falls	2/28	26	5.9	10.5	7.3
Geneva Pass Aerial	3/01	45	12.1	16.5	14.5
Middle Powder	2/25	32	6.4	8.8	9.7
Muddy Creek Guard Station	3/01	20	4.3	4.2	2.8
North Tongue	3/02	43	12.3	12.7	11.5
Onion Gulch	3/01	30	7.4	8.5	7.8
Powder River Pass	3/01	39	10.8	13.2	10.2
Sawmill Divide	3/02	40	10.3	12.4	-
Shell Creek	3/01	48	11.3	18.1	12.5
Soldier Park	3/01	24	5.4	6.0	4.6
Sour Dough	3/01	27	6.2	6.3	5.5
Steamboat Point	3/02	28	7.2	8.1	6.8
Sucker Creek	3/02	34	8.6	11.8	11.3
Woodrock Guard Station	3/02	32	7.7	9.9	9.1

## RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average †
- No Reservoir Data -				

A - Aerial stadia marker. Water content estimated. † 1963-1977 period

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# WATER SUPPLY OUTLOOK

## FOR THE CONSERVATION DISTRICTS IN THE BELLE FOURCHE AND CHEYENNE RIVER WATERSHEDS IN WYOMING AND SOUTH DAKOTA



### YOUR WATER SUPPLY

NEAR AVERAGE WATER SUPPLIES CAN BE EXPECTED FROM STREAMS ORIGINATING OUT OF THE BLACK HILLS. SNOW-FALL ACCUMULATIONS DURING FEBRUARY WERE BELOW NORMAL, BUT THE TOTAL MOUNTAIN SNOWPACK IS ABOVE THE MARCH 1 AVERAGE. RESERVOIR STORAGE IS 14% ABOVE NORMAL.



# BELLE FOURCHE AND CHEYENNE RIVER WATERSHEDS

## STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR		PAST RECORD	
	FORECAST		THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average	PERIOD	Last Year
- No forecasts for this area -				

## SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average +
Belle Fourche	3	109	107

## SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST REC.	
	Date of Survey	Snow Depth (In.)	Water Cont. (In.)	Water Content (inches) Last Yr.	Ave. +
Bearlodge Divide	2/27	20	3.9	4.4	2.8
Mallo Pillow	2/25	-	8.4	5.8	-
Mount Tom Pillow	2/28	-	6.4	-	-
Reuter Canyon	2/28	42	10.3	8.4	8.6
Sweetwater Mountain Pillow	2/25	-	6.8	3.0	-
Upper Spearfish	2/27	32	7.4	5.4	6.7
Warren Peak	2/28	34	7.4	7.0	8.7

## RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average +
Keyhole	190.4	148.1	103.2	120.6
Belle Fourche	185.2	133.7	85.7	125.8
Angostura	86.2	80.8	28.3	64.2
Deerfield	15.1	15.1	15.1	14.1
Pactola	55.0	53.0	48.8	50.0
Shadehill	81.5	52.5	60.6	48.2

+ 1963-1977 period

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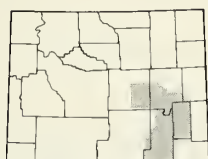


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# WATER SUPPLY OUTLOOK FOR THE CONSERVATION DISTRICTS IN THE LOWER NORTH PLATTE RIVER WATERSHED IN WYOMING

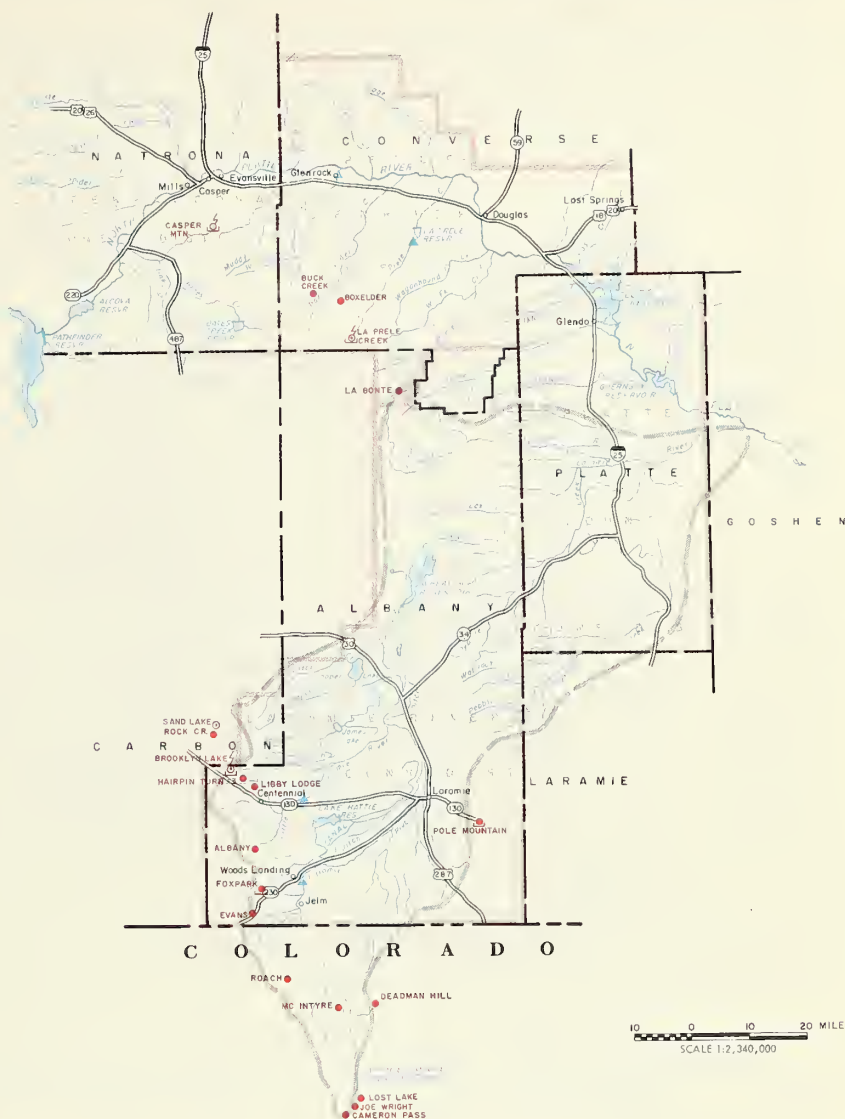
MARCH 1, 1979



LOCATION MAP



- LEGEND**
- ⚡ SNOTEL
  - Snow Course
  - Snow Sensor
  - ⊔ Storage Precipitation Gage (P)
  - ▲ Stream Gaging Station
  - Drainage
  - Highway
  - Conservation District Boundary
  - Watershed Boundary



## YOUR WATER SUPPLY

VOLUME FORECASTS FOR DEER AND LA PRELE CREEKS ARE CURRENTLY 20-30% BELOW NORMAL. WHILE THESE STREAMS ARE GREATLY INFLUENCED BY SPRING RAINS, THE SNOWPACK IS LESS THAN 90% OF THE MARCH 1 AVERAGE. PROSPECTS FOR THE NORTH PLATTE AND LARAMIE APPEAR EXCELLENT. THE SNOWPACK ON THE LITTLE LARAMIE IS THE HIGHEST IN THE AREA AT 1½ TIMES THE NORMAL FOR MARCH 1. RESERVOIR STORAGE IS SLIGHTLY ABOVE AVERAGE.

# LOWER NORTH PLATTE RIVER WATERSHED

## STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year **	Average †
North Platte River near Sinclair	870	130	Apr-Sept	876	670
Deer Creek at Glenrock	35	70	Mar-July	-	50
LaPrele Creek near Douglas (Ab. Reservoir)	26	84	Mar-July	23.9	31
Laramie River & Pioneer Canal near Woods (1)	155	124	Apr-Sept	149	125
Little Laramie River near Filmore	90	145	Apr-Sept	89	62

(1) Observed flow plus transbasin diversions from North Platte River Basin to Cache La Poudre River Basin in Colorado.  
 \*\* Measured flows for last year are U.S. Geological Survey provisional figures subject to revision.

## SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average †
Laramie River	14	96	133
Lower North Platte	4	105	89

## SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST REC.	
	Date of Survey	Snow Depth (In.)	Water Cont (In.)	Water Content (inches) Last Yr.	Ave. †
Albany	2/28	54	18.2	16.7	13.4
Boxelder	2/28	22	6.0	7.0	6.2
Brooklyn Lake	2/28	72	26.3	26.5	18.0
Buck Creek	2/28	30	6.6	6.8	9.1
Cameron Pass	2/24	74	26.7	29.1	22.6
Casper Mountain	2/28	35	8.7	7.7	11.8
Deadman Hill	2/27	55	15.4	15.4	12.9
Evans	2/23	41	11.1	15.7	9.3
Foxpark	2/26	27	7.7	11.1	5.9
Hairpin Turn	2/28	65	23.5	21.5	14.6
Joe Wright	2/27	66	20.7	27.1	19.6
LaBonte	2/24	33	7.4	5.8	5.0
Libby Lodge	2/28	49	17.2	14.7	9.9
Lost Lake	2/27	43	12.5	14.0	9.5
Pole Mountain	2/26	28	8.5	4.8	5.9
Roach	2/25	61	18.8	18.0	15.0
Rock Creek	2/26	76	30.7	23.8	22.0

+ 1963-1977 period.

## RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average †
Seminole	1010.5	399.6	304.5	393.7
Pathfinder	1015.9	678.7	428.6	575.9
Alcova	30.7	2.3	1.0	0.8
Glendo	783.7	386.0	385.7	389.0
Guernsey	45.2	9.2	15.0	11.9
Wheatland #2	98.9	44.8	16.5	45.5

## PROJECT WATER OWNERSHIP

North Platte Project	1016.1	709.2	241.3
Kendrick Project	1201.6	678.3	799.1
Glendo Project Users	454.3	130.4	116.6

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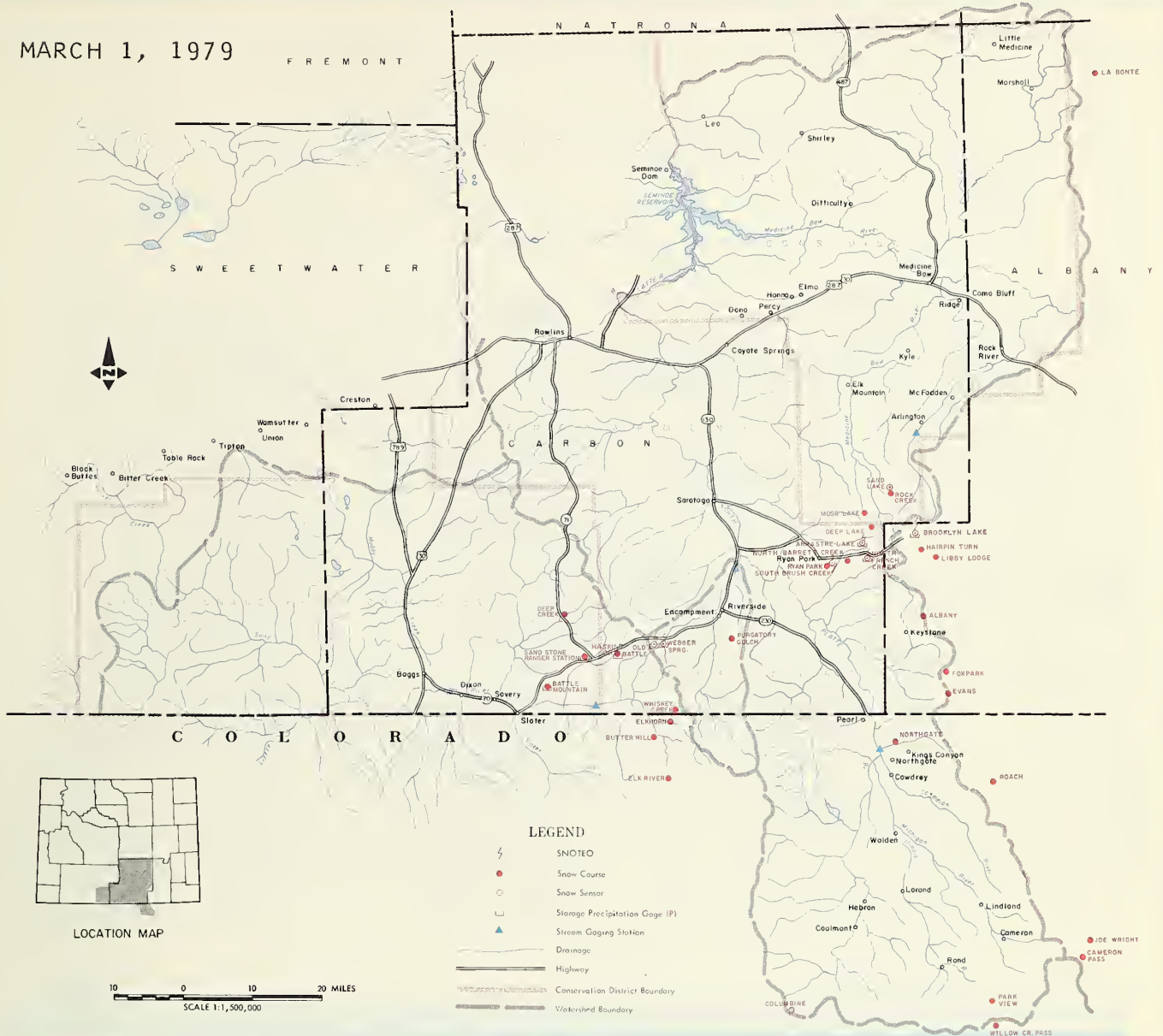
"The Conservation of Water begins with the Snow Survey"



# WATER SUPPLY OUTLOOK FOR THE CONSERVATION DISTRICTS IN THE UPPER NORTH PLATTE AND LITTLE SNAKE RIVER BASINS IN WYOMING

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE  
NORTH PLATTE, NEBRASKA

MARCH 1, 1979



## YOUR WATER SUPPLY

EXCELLENT WATER SUPPLIES ARE FORECAST FOR THE UPPER NORTH PLATTE AND LITTLE SNAKE WATERSHEDS. STREAMFLOW VOLUMES ARE CURRENTLY FORECAST TO BE 30-40% ABOVE THE APRIL-SEPTEMBER AVERAGE. THE SNOWPACK CURRENTLY RANGES FROM 10% ABOVE NORMAL ON BRUSH CREEK TO 60% ABOVE NORMAL ON THE ENCAMPMENT WATERSHED.

# UPPER NORTH PLATTE RIVER AND LITTLE SNAKE RIVER BASINS STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year **	Average †
North Platte River near Northgate	310	130	Apr-Sept	328	238
North Platte River near Sinclair	870	130	Apr-Sept	876	670
Encampment River near Encampment	210	138	Apr-Sept	204	152
Rock Creek near Arlington	78	135	Apr-Sept	77	58
Little Snake near Dixon	440	138	Apr-Sept	389	320
Little Snake near Slater, Colo.	210	136	Apr-Sept	212	154

\*\* Measured flow for last year are U.S. Geological Survey provisional figures subject to revision.

## SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average †
Upper North Platte	15	96	128
Medicine Bow River and Rock Creek	4	110	139
Little Snake	2	108	144

## RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average †
Seminole	1010.5	399.6	304.5	393.7

## SNOW

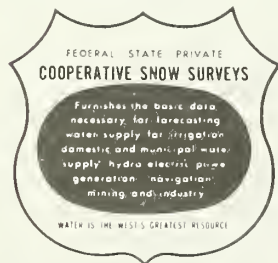
DRAINAGE BASIN and/or SNOW COURSE	Date of Survey	THIS YEAR		PAST REC.	
		Snow Depth (In.)	Water Cont. (In.)	Last Yr.	Ave. †
Albany	2/28	54	18.2	16.7	13.4
Battle Mountain	2/26	42	11.7	12.5	-
Brooklyn Lake	2/28	72	26.3	26.5	18.0
Butter Hill	2/28	54	15.8	15.7	-
Cameron Pass	2/24	74	26.7	29.1	22.6
Deep Creek	2/26	57	16.9	16.2	-
Deep Lake	2/26	104	43.2	38.4	32.8
Elkhorn	-	No Report	-	29.8	-
Elk River	2/27	64	19.7	21.1	15.4
Evans	2/23	41	11.1	15.7	9.3
Foxpark	2/26	27	7.7	11.1	5.9
Hairpin Turn	2/28	65	23.5	21.5	14.6
Haskins Creek	2/26	98	38.6	35.1	-
LaBonte	2/24	33	7.4	5.8	5.0
Libby Lodge	2/28	49	17.2	14.7	9.9
Moss Lake	2/26	68	29.2	28.5	20.6
North Barrett Creek	2/27	61	19.0	18.8	17.7
North French Creek Pillow	2/28	-	22.3	25.5	19.7
Old Battle	2/26	110	43.7	37.6	28.5
Purgatory Gulch	2/26	42	12.6	8.9	8.8
Rock Creek	2/26	76	30.7	23.8	22.0
Ryan Park	2/27	39	10.4	12.3	10.2
Sandstone Ranger Station	2/26	56	18.4	18.2	-
Webber Spring	2/26	75	32.5	25.3	18.3
Whiskey Creek	-	No Report	-	31.6	-

+ 1963-1977 period

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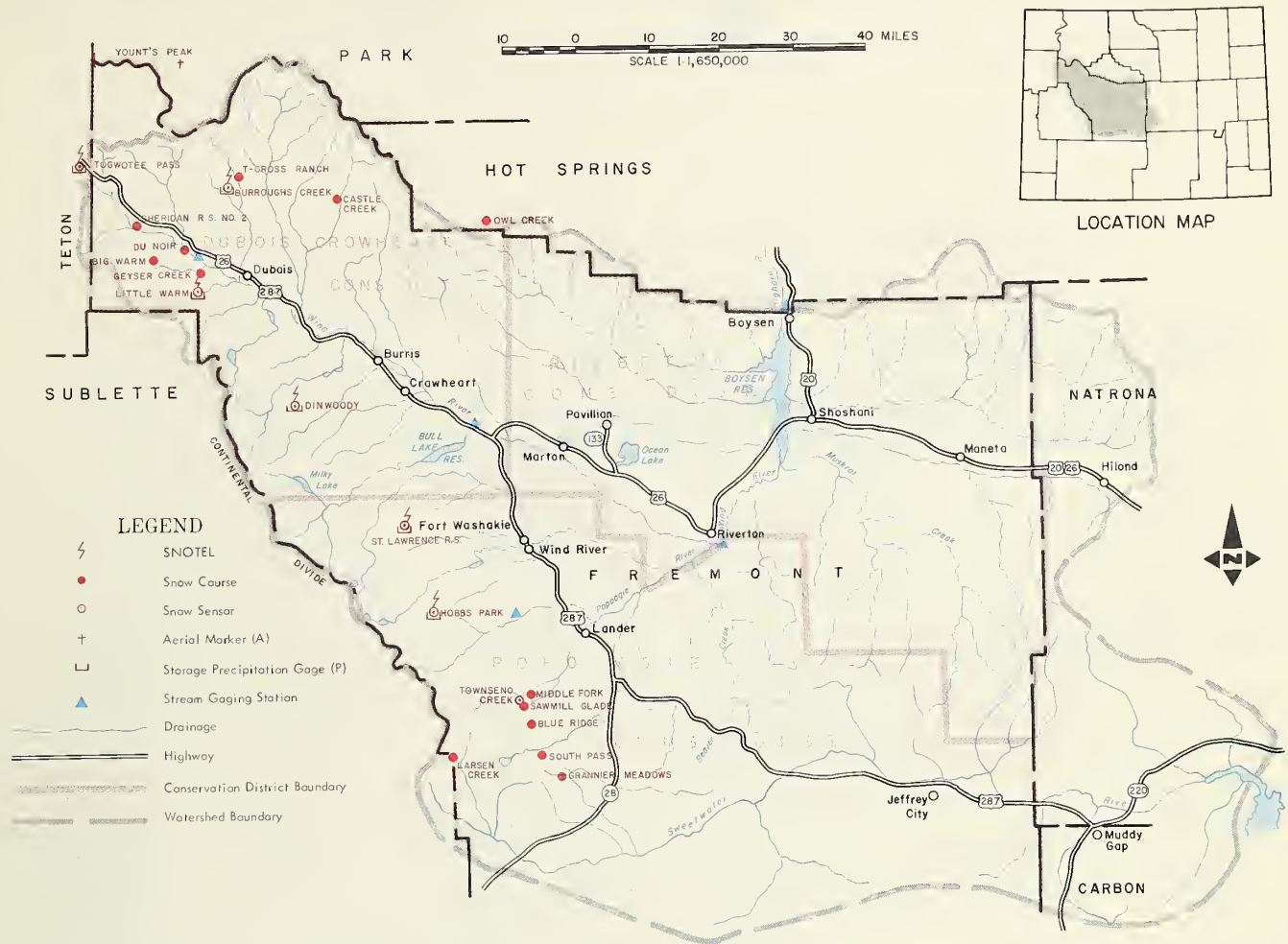
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"The Conservation of Water begins with the Snow Survey"

# WATER SUPPLY OUTLOOK FOR THE CONSERVATION DISTRICTS IN THE WIND RIVER BASIN AND SWEETWATER RIVER WATERSHED IN WYOMING

U.S. DEPARTMENT OF AGRICULTURE - SOIL CONSERVATION SERVICE  
WATER RESOURCES DIVISION

MARCH 1, 1979



## YOUR WATER SUPPLY

AVERAGE WATER SUPPLY CONDITIONS ARE FORECAST FOR THE WIND RIVER BASIN. SNOWPACK CONDITIONS HAVE DECLINED SLIGHTLY DURING THE LAST MONTH, BUT MOST AREAS REMAIN NEAR THE MARCH 1 AVERAGE. RESERVOIR STORAGE REMAINS ABOVE NORMAL.



# WIND RIVER BASIN AND SWEETWATER RIVER WATERSHED

## STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year **	Average †
Wind River near Dubois	112	102	Apr-Sept	119	110
Wind River at Riverton (1)	710	102	Apr-Sept	780	695
Wind River below Boysen (2)	1190	100	Apr-Sept	1332	1193
Bull Lake Creek near Lenore (3)	190	100	Apr-Sept	195	189
Little Popo Agie near Lander	50	94	Apr-Sept	53	53

(1) Observed flow plus change in storage in Bull Lake and Pilot Butte Reservoirs and diversion to Wyoming Canal.

(2) Observed flow plus change in storage in Bull Lake, Pilot Butte and Boysen Reservoirs; plus diversion to Wyoming Canal.

(3) Observed flow plus change in storage in Bull Lake

\*\* Measured flows for last year are U.S. Geological Survey provisional figures subject to revision.

## SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average †
Wind River	9	75	108
Popo Agie	5	112	96
Sweetwater River	3	100	110
Wind above Boysen	15	87	106

## SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST REC.	
	Date of Survey	Snow Depth (in.)	Water Cont. (in.)	Last Yr.	Ave.†
Big Warm Springs	2/26	27	6.6	6.7	5.8
Blue Ridge	2/28	34	8.9	9.8	10.8
Burroughs Creek	2/26	47	14.2	20.6	12.8
Castle Creek	2/27	24	5.4	7.0	-
Dinwoody	2/28	39	10.0	11.0	9.7
DuNoir	2/26	37	9.9	10.1	7.2
Geyser Creek	2/26	32	9.2	9.8	6.3
Grannier Meadows	2/28	48	14.6	13.4	12.2
Hobbs Park	2/28	31	9.3	9.3	11.0
Larsen Creek	2/28	42	11.8	14.2	11.8
Little Warm	2/26	47	13.3	19.2	13.1
Middle Fork	2/28	25	5.7	2.8	5.0
Owl Creek	2/28	22	3.5	3.2	3.9
Sawmill Glade	2/28	23	7.5	5.7	7.6
Sheridan Ranger Station	2/26	34	9.0	9.2	6.7
South Pass	2/28	48	14.0	12.6	12.6
St. Lawrence R.S.	2/28	26	5.4	3.4	5.6
T-Cross Ranch	2/26	34	9.2	10.6	6.0
Togwotee Pass	2/28	77	23.0	35.4	25.2
Younts Peak Aerial	3/03	54	16.2	23.8	9.4

+ 1963-1977 period

## RESERVOIR STORAGE (Thousand Ac. Ft.)

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average †
Bull Lake	151.8	106.4	80.0	90.2
Pilot Butte	31.6	18.4	5.8	16.8
Boysen	549.9	308.2	298.6	311.5

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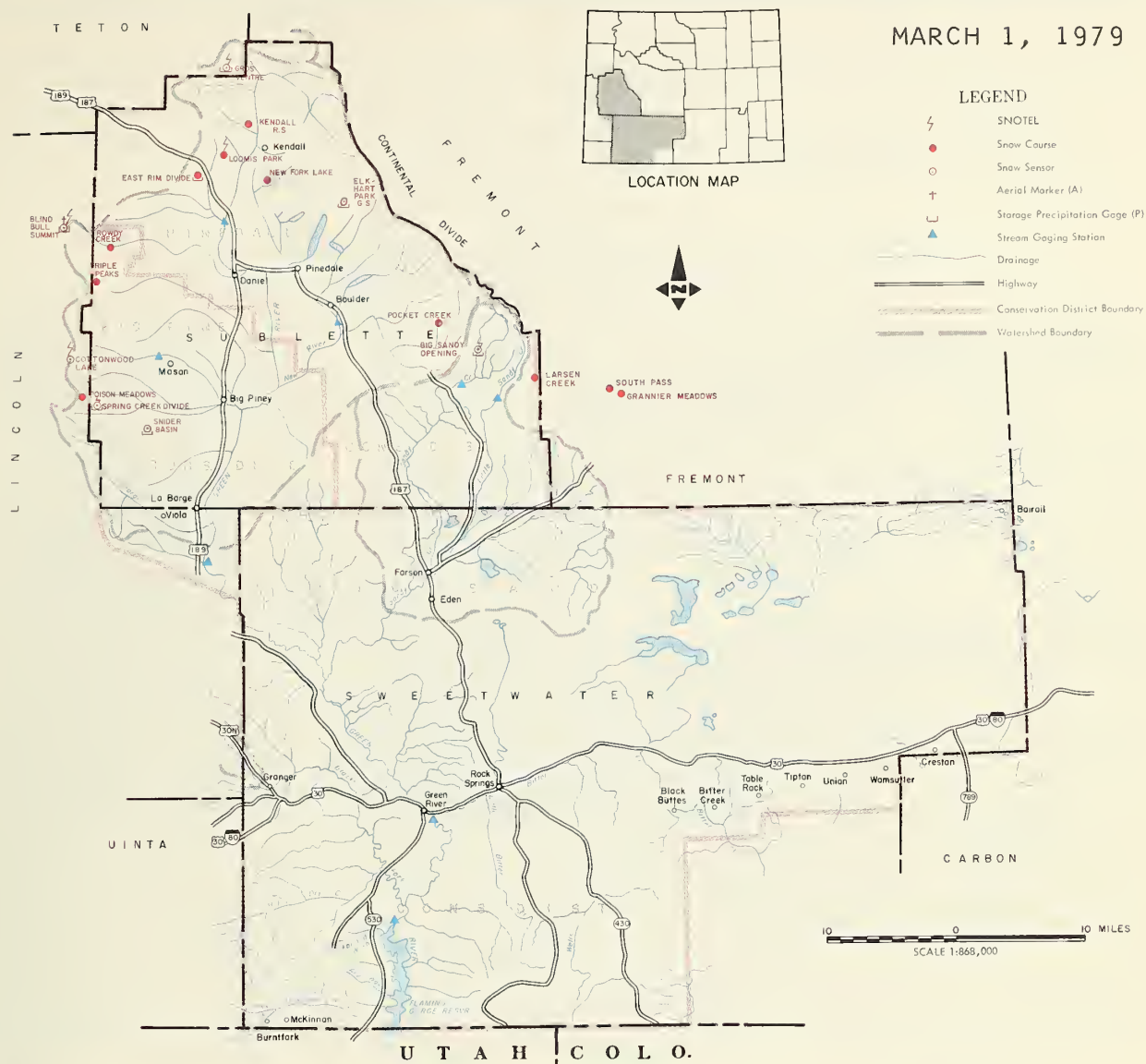


# FIRST CLASS MAIL

"The Conservation of Water begins with the Snow Survey"

# WATER SUPPLY OUTLOOK FOR THE CONSERVATION DISTRICTS IN THE UPPER GREEN RIVER BASIN IN WYOMING

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE  
NATIONAL CENTER FOR WATER RESOURCES



## YOUR WATER SUPPLY

THE MOUNTAINS OF THE GREEN RIVER BASIN RECEIVED LESS THAN NORMAL AMOUNTS OF PRECIPITATION DURING FEBRUARY, THE SNOWPACK CURRENTLY RANGES FROM 30% ABOVE NORMAL AT THE FAR EASTERN END OF THE BASIN TO NEAR AVERAGE ALONG THE WESTERN SIDE. STREAMFLOW VOLUMES ARE FORECAST AT 15% BELOW TO 10% ABOVE AVERAGE FOR THE SPRING AND SUMMER MONTHS,

# UPPER GREEN RIVER BASIN IN WYOMING

## STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year**	Average †
Green River at Warren Bridge	325	97	Apr-Sept	359	336
Green River near LaBarge	860	86	Apr-Sept	1242	999
Green River near Green River (1)	930	85	Apr-Sept	1291	1094
Flaming Gorge Inflow	1270	98	Apr-July	1180	1292
LaBarge Creek at LaBarge Meadows	9.0	102	Apr-Sept	11.6	8.8
Big Sandy River near Big Sandy	68	108	Apr-Sept	75	63

(1) Observed flow plus change in storage in Fontenelle Reservoir.

\*\* Measured flows for last year are U.S. Geological Survey provisional figures subject to revision.

## SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average †
Upper Green East Side	8	79	113
Upper Green, West Side	5	64	100
Big Sandy	2	85	121

## SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST REC.	
	Date of Survey	Snow Depth (In.)	Water Cont. (In.)	Water Content (inches) Last Yr.	Ave. †
Big Sandy Opening	2/28	58	15.5	17.2	11.7
Blind Bull Summit Aerial	2/25	87	24.4	34.6	23.2
East Rim Divide	2/26	49	13.5	18.4	12.0
Elkhart Park G.S.	2/28	48	12.0	18.7	12.0
Grannier Meadows	2/28	48	14.6	13.4	12.2
Gros Ventre Summit	2/26	39	9.9	9.6	10.1
Kendall Ranger Station	2/26	50	13.7	12.0	11.2
Larsen Creek	2/28	46	11.8	14.2	11.8
Loomis Park	2/26	61	17.2	26.3	16.1
New Fork Lake	2/26	48	12.4	16.4	10.0
Pocket Creek	2/28	53	12.0	15.0	11.0
Poison Meadows	2/26	82	22.8	39.4	25.0
Rowdy Creek	2/25	69	20.0	29.2	20.2
Snider Basin R.S.	2/26	54	16.6	21.8	15.0
South Pass	2/28	48	14.0	12.6	12.6
Spring Creek Divide Pillow	2/26	-	19.2	24.2	-
Triple Peaks	2/25	74	20.8	38.3	22.7

## RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average †
Eden	11.8	- No Report -	-	2.8
Big Sandy	38.3	- No Report -	-	19.3
Fontenelle	344.8	226.9	221.6	203.1*
Flaming Gorge	3749.0	2501.7	1984.6	-

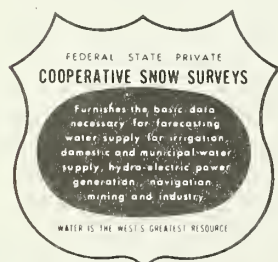
\*Less than 15 years

+ 1963-1977 period

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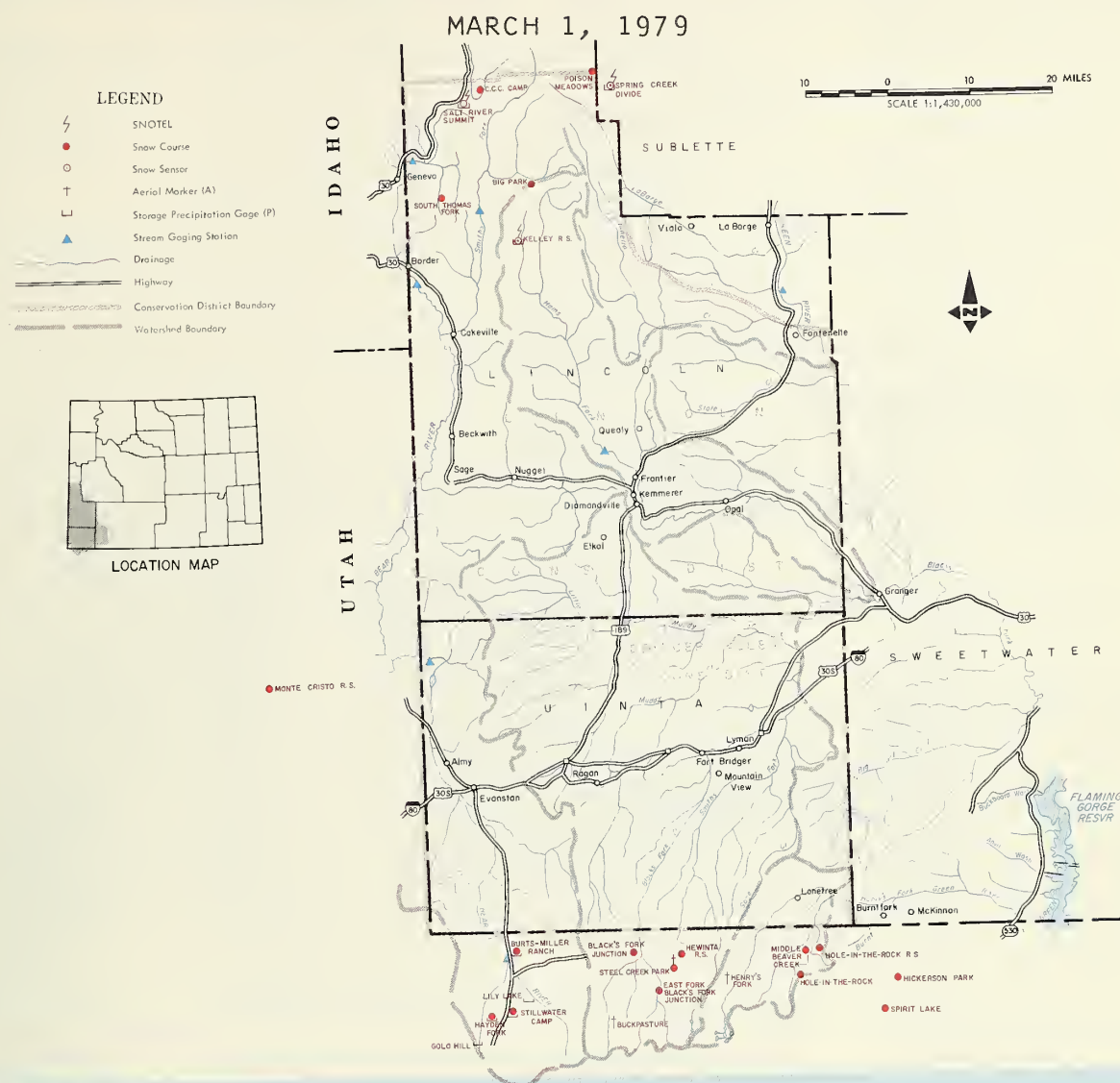
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"The Conservation of Water begins with the Snow Survey"



# WATER SUPPLY OUTLOOK FOR THE CONSERVATION DISTRICTS IN THE LOWER GREEN RIVER AND BEAR RIVER WATERSHEDS IN WYOMING

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE  
WATER RESOURCES DIVISION



## YOUR WATER SUPPLY

WATER SUPPLY FORECASTS FOR THE LOWER GREEN AND BEAR WATERSHEDS ARE AT OR SLIGHTLY BELOW AVERAGE. THE SNOWPACK IS SLIGHTLY ABOVE AVERAGE THROUGHOUT THE BASINS WITH HENRY'S FORK THE HIGHEST AT 22% ABOVE NORMAL. STREAMFLOW VOLUMES ARE FORECAST AT 84 TO 110% OF NORMAL. STORAGE IN FLAMING GORGE IS APPROXIMATELY 1½ TIMES THE MARCH 1 AVERAGE.

# LOWER GREEN RIVER AND BEAR RIVER WATERSHEDS

## STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year **	Average †
LaBarge Creek at LaBarge Meadows	9.0	102	Apr-Sept	11.6	8.8
Green River near Green River (1)	930	85	Apr-Sept	1291	1094
Hams Fork below Pole Creek, near Frontier	63	88	Apr-Sept	96	72
Blacks Fork near Millburne	90	98	Apr-July	95	92
Flaming Gorge Inflow	1270	98	Apr-July	1180	1292
Smiths Fork near Border	125	104	Apr-Sept	160	120
Thomas Fork near State Line	38	109	Apr-Sept	54	35
Bear River at Utah-Wyoming State Line	96	84	Apr-July	115	114
Henrys Fork near Manila, Utah	54	100	Apr-Sept	-	54

(1) Observed flow plus change in storage in Fontenelle Reservoir.

\*\* Measured flow for last year are U.S. Geological Survey provisional figures subject to revision.

## SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average †
Bear River	1	91	103
Smiths & Thomas Forks	4	71	107

## RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average †
Fontenelle	344.8	226.9	221.6	203.1
Flaming Gorge	3749.0	2501.7	1984.6	-
Viva Naughton	42.4	32.7	20.2	29.3

## SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST REC.	
	Date of Survey	Snow Depth (In.)	Water Cont (In.)	Last Yr.	Ave. †
Big Park	2/26	60	17.6	25.8	17.5
Black's Fork GS-East Fk.	2/28	31	7.8	8.5	7.4
Black's Fork Junction	2/28	34	8.0	8.5	7.4
Burts-Miller Ranch	2/28	22	5.4	4.3	-
CCC Camp	2/27	46	13.2	16.4	11.1
Hayden Fork	2/28	48	14.0	14.6	-
Hewinta Guard Station	2/28	32	8.0	7.3	7.3
Hickerson Park	2/28	29	6.2	4.6	5.0
Kelley Ranger Station	2/26	63	18.0	24.0	15.3
Poison Meadows	2/26	82	22.8	39.4	25.0
Salt River Summit	2/27	56	15.4	21.2	14.4
South Thomas Fork	2/26	52	14.6	21.0	14.3
Spirit Lake	2/28	47	11.7	8.4	9.7
Steel Creek Park	2/28	48	12.0	14.1	12.8
Stillwater Camp	2/28	39	9.9	10.1	-
Trial Lake	2/27	75	22.3	24.8	20.0

+ 1963-1977 period

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# BASIC DATA SUPPLEMENT 1

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST RECORD	
	Date of Survey	Snow Depth (In.)	Water Cont. (In.)	Water Content (Inches)	
				Last Yr.	Ave. †
Afton Ranger Station	2/27	21	5.4	5.6	4.0
Albany	2/28	54	18.2	16.7	13.4*
Arizona	2/26	63	18.7	24.3	16.7
Arrastre Lake Pillow	3/03	-	21.2	-	-
Aster Creek	2/26	88	24.9	26.4	25.9
Bald Mountain	3/02	60	18.1	26.3	19.3
Base Camp	2/27	62	19.7	27.1	18.4
Battle Mountain	2/26	42	11.7	12.5	-
Bearlodge Divide	2/27	20	3.9	4.4	2.8*
Bear Trap Aerial	3/01	30	6.9	9.5	7.9
Big Goose	3/02	27	6.1	6.1	6.2
Big Park	2/26	60	17.6	25.8	17.5
Big Sandy Opening	2/28	58	15.5	17.2	11.7
Big Sandy Opening Pillow	2/28	-	14.6	13.0	-
Big Warm Springs	2/26	27	6.6	6.7	5.8
Blackrock	2/28	62	18.3	26.7	18.6
Black's Fork GS-East Fk.	2/28	31	7.8	8.5	7.4
Black's Fork Junction	2/28	34	8.0	8.5	7.4
Blind Bull Summit Aerial	2/25	87	24.4	34.6	23.2
Blue Ridge	2/28	34	8.9	9.8	10.8
Bone Spring Divide	3/02	57	16.0	19.2	15.9
Boxelder	2/28	22	6.0	7.0	6.2
Brooklyn Lake	2/28	72	26.3	26.5	18.0
Bryan Flat	2/26	40	11.6	12.5	8.4
Buck Creek	2/28	30	6.6	6.8	9.1*
Burgess Ranger Station	3/02	28	6.8	8.3	7.1
Burroughs Creek	2/26	47	14.2	20.6	12.8
Burroughs Creek Pillow	2/26	-	13.2	19.0	-
Burts-Miller Ranch	2/28	22	5.4	4.3	-
Butter Hill	2/28	54	15.8	15.7	-
Cameron Pass	2/24	74	26.7	29.1	22.6
Canyon	3/01	62	14.4	19.1	14.3
Carter Mountain	2/27	23	4.4	2.0	3.7
Casper Mountain	2/28	35	8.7	7.7	11.8
Casper Mountain Pillow	2/28	-	7.8	7.3	-
Castle Creek	2/27	24	5.4	7.0	-
CCC Camp	2/27	46	13.2	16.4	11.1
Chambers Lake	2/27	37	10.7	13.5	7.7
Cloud Peak Aerial	3/01	27	6.8	8.9	9.6
Columbine Lodge	2/26	73	24.7	30.9	19.9
Cooke Station	3/02	81	19.3	27.0	18.0
Cottonwood Lake Aerial	2/25	53	14.3	26.4	16.8
Coulter Creek	2/28	78	23.8	28.4	19.8*
Crevice Mountain	3/03	51	11.1	13.3	9.8
Darby Canyon	3/03	68	19.6	23.5	19.8e
Deadman Hill	2/27	55	15.4	15.4	12.9
Deep Creek	2/26	57	16.9	16.2	-
Deep Lake	2/26	104	43.2	38.4	32.8*
Dinwoody	2/28	39	10.0	11.0	9.7
Dinwoody Pillow	2/28	-	11.7	9.9	-
Dome Lake	3/02	32	8.1	8.3	8.2
DuNoir	2/26	37	9.9	10.1	7.2
East Entrance	3/02	40	10.7	15.1	9.7
East Rim Divide	2/26	49	13.5	18.4	12.0
Elbo Ranch	2/28	47	13.4	14.0	-
Elkhart Park G.S.	2/28	48	12.0	18.7	12.0
Elkhart Park Pillow	2/28	-	13.8	-	-
Elkhorn	- No Report	-	-	29.8	-
Elk River	2/27	64	19.7	21.1	15.4
Evans	2/23	41	11.1	15.7	9.3
Fisher Creek	3/02	117	33.3	41.7	34.3
Fisher Creek Pillow	3/02	-	31.4	37.1	32.3
Five Springs Falls	2/28	26	5.9	10.5	7.3
Four Mile Meadows	2/28	43	12.0	16.0	11.3
Foxpark	2/26	27	7.7	11.1	5.9
Fred's Mountain	3/03	75	20.9	28.8	16.9e
Geneva Pass Aerial	3/01	45	12.1	16.5	14.5
Geyser Creek	2/26	32	9.2	9.8	6.3
Glade Creek	2/27	79	24.5	29.1	19.8
Grannier Meadows	2/28	48	14.6	13.4	12.2
Grassy Lake	2/27	108	34.3	34.9	30.6
Greys Boundary	2/27	50	15.2	16.2	10.3
Gros Ventre Summit	2/26	39	9.9	9.6	10.1
Gros Ventre Summit Pillow	2/26	-	10.5	13.9	-
Grover Park Divide	2/27	46	12.6	16.2	11.0
Hairpin Turn	2/28	65	23.5	21.5	14.6
Haskins Creek	2/26	98	38.6	35.1	-
Hayden Fork	2/28	48	14.0	14.6	-
Hewinta Guard Station	2/28	32	8.0	7.3	7.3
Hickerson Park	2/28	29	6.2	4.6	5.0
Hobbs Park	2/28	37	9.3	9.3	11.0
Hobbs Park Pillow	2/28	-	11.9	-	-
Huckleberry Divide	2/26	74	23.7	26.1	18.8
Indian Meadows	3/03	109	32.3	33.4	13.9e
Jackpine Creek	3/03	78	21.0	26.0	19.6e
Joe Wright	2/27	66	20.7	27.1	19.6
Kelley Ranger Station	2/26	63	18.0	24.0	15.3
Kendall Ranger Station	2/26	50	13.7	12.0	11.2
LaBonte	2/24	33	7.4	5.8	5.0
Lake Camp	3/01	43	10.2	12.3	8.3
Larsen Creek	2/28	46	11.8	14.2	11.8*
Lewis Lake Divide	2/26	114	35.4	51.2	35.8
Lewis Lake Divide Pillow	2/26	-	28.1	43.8	-
Libby Lodge	2/28	49	17.2	14.7	9.9
Little Warm	2/26	47	13.3	19.2	13.1
Little Warm Pillow	2/26	-	8.4	-	-
Loomis Park	2/26	61	17.2	26.3	16.1
Loomis Park Pillow	2/26	-	17.2	-	-
Lost Lake	2/27	43	12.5	14.0	9.5
Lupine Creek	2/27	38	9.8	11.4	9.9
Mallo Pillow	2/25	-	8.4	5.8	-
Marquette Creek	2/27	29	5.8	3.2	-
Medicine Lodge Lakes	3/01	41	11.5	14.0	9.9
Middle Fork	2/28	25	5.7	2.8	5.0*
Middle Powder	2/25	32	6.4	8.8	9.7
Middle Powder Pillow	2/25	-	7.3	-	-
Miles Creek	3/03	49	12.9	17.1	11.7e
Monte Cristo	2/27	63	22.7	25.0	22.0
Moran	2/26	51	15.7	16.7	12.0
Moran Bay	2/28	78	25.1	-	19.4
Moss Lake	2/26	68	29.2	28.5	20.6*
Mount Tom Pillow	2/28	-	6.4	-	-
Muddy Creek Guard Station	3/01	20	4.3	4.2	2.8
New Fork Lake	2/26	48	12.4	16.4	10.0
Norris Basin	2/26	38	8.4	14.8	10.1
North Barrett Creek	2/27	61	19.0	18.8	17.7*
Northeast Entrance	3/03	41	10.6	13.4	9.1
Northeast Entrance Pillow	3/03	-	10.3	13.0	8.7
North French Creek Pillow	2/28	-	22.3	25.5	19.7e
Northgate	2/23	22	5.0	6.1	5.4
North Tongue	3/02	43	12.3	12.7	11.5
Old Battle	2/26	110	43.7	37.6	28.5
Old Battle Pillow	2/26	-	37.7	30.0	-
Old Faithful	2/28	48	14.9	18.5	-
Onion Gulch	3/01	30	7.4	8.5	7.8
Owl Creek	2/28	22	3.5	3.2	3.9*
Parkers Peak Aerial	3/03	88	26.4	36.7	29.9*
Park View	2/23	36	9.2	8.0	7.6
Phillips Bench	2/26	100	30.4	35.8	23.2*
Phillips Bench Pillow	2/26	-	25.3	36.2	-
Pitchstone Plateau Aerial	3/03	166	54.8	71.1	48.6*
Pocket Creek	2/28	53	12.0	15.0	11.0*

+ 1963-1977 period.



# BASIC DATA SUPPLEMENT 1

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST RECORD		DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST RECORD	
	Date of Survey	Snow Depth (In.)	Water Cont. (In.)	Water Content (Inches)			Date of Survey	Snow Depth (In.)	Water Cont. (In.)	Water Content (Inches)	
				Last Yr.	Ave. †					Last Yr.	Ave. †
Poison Meadows	2/26	82	22.8	39.4	25.0						
Pole Mountain	2/26	28	8.5	4.8	5.9						
Powder River Pass	3/01	39	10.8	13.2	10.2*						
Purgatory Gulch	2/26	42	12.6	8.9	8.8*						
Rabbit Ears	2/26	78	23.5	30.3	21.0						
Ranger Creek	3/01	37	8.5	10.9	8.7						
Reuter Canyon	2/28	42	10.3	8.4	8.6*						
Roach	2/25	61	18.8	18.0	15.0						
Rock Creek	2/26	76	30.7	23.8	22.0						
Rowdy Creek	2/25	69	20.0	29.2	20.2						
Ryan Park	2/27	39	10.4	12.3	10.2						
Salt River Summit	2/27	56	15.4	21.2	14.4						
Salt River Summit Pillow	2/27	-	14.5	-	-						
Sandstone Ranger Station	2/26	56	18.4	18.2	-						
Sawmill Divide	3/02	40	10.3	12.4	-						
Sawmill Glade	2/28	25	7.9	5.7	7.6						
Shell Creek	3/01	48	11.3	18.1	12.5						
Sheridan Ranger Station	2/26	34	9.0	9.2	6.7						
Snake River Station	2/26	73	21.6	27.6	18.3						
Snider Basin Ranger Sta.	2/26	54	16.6	21.8	15.0						
Snow King Mountain	2/28	56	16.3	18.7	12.9						
Soldier Park	3/01	24	5.4	6.0	4.6						
Sour Dough	3/01	27	6.2	6.3	5.5						
South Brush Creek Pillow	2/27	-	10.2	10.6	-						
South Pass	2/28	48	14.0	12.6	12.6						
South Thomas Fork	2/26	52	14.6	21.0	14.3*						
Spirit Lake	2/28	47	11.7	8.4	9.7						
Spring Creek Divide Pillow	2/26	-	19.2	24.2	-						
State Line	3/03	55	16.3	14.9	12.7						
Steamboat Point	3/02	28	7.2	8.1	6.8						
Steel Creek Park	2/28	48	12.0	14.1	12.8						
Stillwater Camp	2/28	39	9.9	10.1	-						
St. Lawrence R.S.	2/28	26	5.4	3.4	5.6						
St. Lawrence R.S. Pillow	2/28	-	6.8	4.5	-						
Sucker Creek	3/02	34	8.6	11.8	11.3						
Sweetwater Mountain Pillow	2/25	-	6.8	3.0	-						
Sylvan Pass	3/02	46	11.6	17.8	12.2*						
T-Cross Ranch	2/26	34	9.2	10.6	6.0						
Teton Pass W.S.	2/28	88	28.3	30.8	21.0*						
Thumb Divide	2/26	57	15.7	20.3	18.2						
Timber Creek	3/02	18	3.5	1.7	2.4						
Togwotee Pass	2/28	77	23.0	35.4	25.2						
Togwotee Pass Pillow	2/28	-	21.0	29.6	-						
Townsend Creek	2/28	27	6.0	4.2	-						
Trial Lake	2/27	75	22.3	24.8	20.0						
Triple Peaks	2/25	74	20.8	38.3	22.7						
Turpin Meadows	2/28	41	11.7	14.9	9.6						
Twenty-One Mile	2/25	55	14.5	22.2	16.6						
Two Ocean Plateau Aerial	3/03	67	19.4	35.7	28.0*						
Tyrell R.S.	3/01	32	8.0	9.7	7.5						
Upper Spearfish	2/27	32	7.4	5.4	6.7						
Warren Peak	2/28	34	7.4	7.0	8.7*						
Webber Spring	2/26	75	32.5	25.3	18.3						
Webber Spring Pillow	2/26	-	32.6	28.9	-						
West Yellowstone	2/25	43	11.5	15.1	11.1						
Whiskey Creek	- No Report	-	-	31.6	-						
White Mill	3/02	98	25.0	32.3	25.0						
White Mill Pillow	3/02	-	23.1	28.7	20.8						
Willow Creek Pass	2/23	47	13.7	12.0	10.2						
Wolverine	2/27	49	15.8	16.2	10.7*						
Wood Rock Guard Station	3/02	32	7.7	9.9	9.1						
Youngs Ranch Aerial	2/25	66	17.8	25.4	15.7*						
Younts Peak Aerial	3/03	54	16.2	23.8	19.4*						
* Less than 15 years e Estimated average											

† 1963-1977 period.

# BASIC DATA SUPPLEMENT 2

## PRECIPITATION (Inches)

FOR MONTH OF FEBRUARY

DRAINAGE BASIN and PRECIPITATION GAGE LOCATION	ELEVATION	CURRENT INFORMATION		PAST RECORD	
		Date of Reading	Precipitation	Last Year	Average <sup>†</sup>
Arrastre Lake	10280	2/27	3.50	-	-
Bald Mountain	9380	- No Report -	-	-	-
Battle Mountain	7440	- No Report -	-	3.19	-
Bearlodge Divide (Alva) (NWS)	4390	- No Report -	-	1.20	0.93
Big Sandy Opening	9080	2/28	2.75	-	1.65*
Blind Bull Summit	8650	2/27	3.70	-	-
Bone Springs Divide	9350	2/28	3.60	-	-
Brooklyn Lake	10220	2/28	4.00	-	3.56
Burgess R.S.	7880	- No Report -	-	-	-
Burroughs Creek	8750	2/26	3.00	2.75	-
Canyon	7940	- No Report -	-	-	-
Carter Mountain	7950	2/27	0.60	0.65	0.86*
Casper Mountain	7850	- No Report -	-	1.81	2.37
Dome Lake	8870	2/28	1.20	-	-
East Rim Divide	7930	- No Report -	-	-	1.25
Elkhart Park G.S.	9400	2/28	3.00	0	1.80*
Grassy Lake	7265	2/27	7.85	7.75	5.12
Gros Ventre Summit	8750	2/26	1.25	6.75	-
Grover Park Divide	7000	2/27	3.50	3.50	2.78*
Haskins Creek	8975	- No Report -	-	-	-
Hobbs Park	10100	2/28	1.00	2.62	-
Kelley Ranger Station	8180	- No Report -	-	3.30	2.40*
Lewis Lake Divide	7850	2/26	7.90	7.10	5.68*
Little Warm	9620	2/28	1.20	-	-
Louis Lake	8500	2/28	1.00	2.00	2.13*
Middle Powder	7760	2/28	0.80	-	-
Moran (NWS)	6500	2/28	2.14	4.22	1.97
North French Creek	10125	2/28	4.50	-	3.46*
Old Battle	9920	- No Report -	-	1.25	5.44*
Onion Gulch	8780	- No Report -	-	-	1.24*
Owl Creek	8975	2/28	1.25	-	-
Phillips Bench	8200	2/26	3.00	-	-
Pole Mountain	8360	2/26	0.40	0.75	1.30*
Powder River Pass	9480	2/26	1.75	-	1.70
Rock Creek	9980	- No Report -	-	3.62	3.62*
Salt River Summit	7700	2/27	3.56	0.75	2.92
Sandstone R.S.	8150	- No Report -	-	-	-
Shell Creek	9580	- No Report -	-	-	-
Snake River Station (NWS)	6920	2/28	3.89	4.82	2.74
Snider Basin	8060	- No Report -	-	1.90	2.55
South Brush Creek	8440	2/28	1.70	3.62	-
Spring Creek Divide	9000	2/26	4.25	-	-
St. Lawrence R.S.	8960	2/24	0.60	1.00	-
Sucker Creek	8880	2/28	1.60	-	-
Sweetwater Mountain	5860	2/25	1.38	0.38	-
Sylvan Lake	7100	- No Report -	-	-	-
Timber Creek	7950	- No Report -	-	1.25	0.53*
Togwotee Pass	9580	2/28	3.90	4.95	3.96
Warren Peak	6520	2/28	1.56	0.60	0.89*
Webber Spring	9250	- No Report -	-	2.94	-
Wolverine	7650	2/27	3.50	-	-

(NWS) National Weather Service gage

\* Average contains less than 15 years







INDEX TO WYOMING SNOW COURSES AND DATA SITES

DRAINAGE BASIN AND COURSE NAME	WYOMING NUMBER	ELEV.	SEC.	TWP.	RANGE	LOCATION LAT. — LONG.	
MISSOURI RIVER DRAINAGE							
Madison River							
Black Bear m	11E35	7950	27	92	135	5E	
Black Fork m	11E36	7950	27	92	135	5E	
Old Fairfull m	11E37	7950	27	92	135	5E	
West Yellowstone m	11E38	7950	27	92	135	5E	
Yellowstone	11E39	7940	44	94	135	5E	
Canyon	10E33	7940	44	94	135	5E	
Grevice Mountain m	10E5	8400	22	9E	110	30	
East Entrance	9E5	6940	44	29	9E	110	30
Lake Camp	10E4P	7780	44	33	9E	110	30
North Fork	10E4	7780	44	33	9E	110	30
Northeast Entrance m	10E7P	7400	33	1E	9E	110	30
Parker's Peak	9E7A	9400	44	94	135	5E	
Pitchstone Plateau	10E16A	8520	44	94	135	5E	
Thumb Divide	10E16A	8520	44	94	135	5E	
Two Ocean Plateau	10E17A	9400	44	94	135	5E	
Sylvan Pass	10E5P	7100	44	29	9E	110	30
Clark's Fork							
Cooke Station m	906	8150	19	38	15E		
Fisher Creek m	907	8150	19	38	15E		
White Hill m	908	8150	19	38	15E		
Wolfcreek	909	8150	19	38	15E		
Wind River							
Big Horn	9F12	8370	29	42N	108W		
Surrounds Creek	9F8*	8750	43	91	104		
Castle Creek	9F20	8400	19	43N	104W		
Omwoody	9F10*	8760	27	42N	108W		
Gosyer Creek	9F7	8500	6	41N	107W		
Little Horn	9F8*	9620	24	41N	108W		
Sheridan R.S.	9F14	7720	3	42N	109W		
Togotose Ranch	9F11*	8960	26	41N	108W		
Two Ocean Plateau	9F11*	8960	26	41N	108W		
Popo Agie River							
Blue Ridge	802	9620	23	31N	101W		
Hobbs Park	803	9620	23	31N	101W		
Middle Fork	804	9620	23	31N	101W		
South Fork	805	9620	23	31N	101W		
South Fork	806	9620	23	31N	101W		
South Fork	807	9620	23	31N	101W		
South Fork	808	9620	23	31N	101W		
South Fork	809	9620	23	31N	101W		
South Fork	810	9620	23	31N	101W		
South Fork	811	9620	23	31N	101W		
South Fork	812	9620	23	31N	101W		
South Fork	813	9620	23	31N	101W		
South Fork	814	9620	23	31N	101W		
South Fork	815	9620	23	31N	101W		
South Fork	816	9620	23	31N	101W		
South Fork	817	9620	23	31N	101W		
South Fork	818	9620	23	31N	101W		
South Fork	819	9620	23	31N	101W		
South Fork	820	9620	23	31N	101W		
South Fork	821	9620	23	31N	101W		
South Fork	822	9620	23	31N	101W		
South Fork	823	9620	23	31N	101W		
South Fork	824	9620	23	31N	101W		
South Fork	825	9620	23	31N	101W		
South Fork	826	9620	23	31N	101W		
South Fork	827	9620	23	31N	101W		
South Fork	828	9620	23	31N	101W		
South Fork	829	9620	23	31N	101W		
South Fork	830	9620	23	31N	101W		
South Fork	831	9620	23	31N	101W		
South Fork	832	9620	23	31N	101W		
South Fork	833	9620	23	31N	101W		
South Fork	834	9620	23	31N	101W		
South Fork	835	9620	23	31N	101W		
South Fork	836	9620	23	31N	101W		
South Fork	837	9620	23	31N	101W		
South Fork	838	9620	23	31N	101W		
South Fork	839	9620	23	31N	101W		
South Fork	840	9620	23	31N	101W		
South Fork	841	9620	23	31N	101W		
South Fork	842	9620	23	31N	101W		
South Fork	843	9620	23	31N	101W		
South Fork	844	9620	23	31N	101W		
South Fork	845	9620	23	31N	101W		
South Fork	846	9620	23	31N	101W		
South Fork	847	9620	23	31N	101W		
South Fork	848	9620	23	31N	101W		
South Fork	849	9620	23	31N	101W		
South Fork	850	9620	23	31N	101W		
South Fork	851	9620	23	31N	101W		
South Fork	852	9620	23	31N	101W		
South Fork	853	9620	23	31N	101W		
South Fork	854	9620	23	31N	101W		
South Fork	855	9620	23	31N	101W		
South Fork	856	9620	23	31N	101W		
South Fork	857	9620	23	31N	101W		
South Fork	858	9620	23	31N	101W		
South Fork	859	9620	23	31N	101W		
South Fork	860	9620	23	31N	101W		
South Fork	861	9620	23	31N	101W		
South Fork	862	9620	23	31N	101W		
South Fork	863	9620	23	31N	101W		
South Fork	864	9620	23	31N	101W		
South Fork	865	9620	23	31N	101W		
South Fork	866	9620	23	31N	101W		
South Fork	867	9620	23	31N	101W		
South Fork	868	9620	23	31N	101W		
South Fork	869	9620	23	31N	101W		
South Fork	870	9620	23	31N	101W		
South Fork	871	9620	23	31N	101W		
South Fork	872	9620	23	31N	101W		
South Fork	873	9620	23	31N	101W		
South Fork	874	9620	23	31N	101W		
South Fork	875	9620	23	31N	101W		
South Fork	876	9620	23	31N	101W		
South Fork	877	9620	23	31N	101W		
South Fork	878	9620	23	31N	101W		
South Fork	879	9620	23	31N	101W		
South Fork	880	9620	23	31N	101W		
South Fork	881	9620	23	31N	101W		
South Fork	882	9620	23	31N	101W		
South Fork	883	9620	23	31N	101W		
South Fork	884	9620	23	31N	101W		
South Fork	885	9620	23	31N	101W		
South Fork	886	9620	23	31N	101W		
South Fork	887	9620	23	31N	101W		
South Fork	888	9620	23	31N	101W		
South Fork	889	9620	23	31N	101W		
South Fork	890	9620	23	31N	101W		
South Fork	891	9620	23	31N	101W		
South Fork	892	9620	23	31N	101W		
South Fork	893	9620	23	31N	101W		
South Fork	894	9620	23	31N	101W		
South Fork	895	9620	23	31N	101W		
South Fork	896	9620	23	31N	101W		
South Fork	897	9620	23	31N	101W		
South Fork	898	9620	23	31N	101W		
South Fork	899	9620	23	31N	101W		
South Fork	900	9620	23	31N	101W		
South Fork	901	9620	23	31N	101W		
South Fork	902	9620	23	31N	101W		
South Fork	903	9620	23	31N	101W		
South Fork	904	9620	23	31N	101W		
South Fork	905	9620	23	31N	101W		
South Fork	906	9620	23	31N	101W		
South Fork	907	9620	23	31N	101W		
South Fork	908	9620	23	31N	101W		
South Fork	909	9620	23	31N	101W		
South Fork	910	9620	23	31N	101W		
South Fork	911	9620	23	31N	101W		
South Fork	912	9620	23	31N	101W		
South Fork	913	9620	23	31N	101W		
South Fork	914	9620	23	31N	101W		
South Fork	915	9620	23	31N	101W		
South Fork	916	9620	23	31N	101W		
South Fork	917	9620	23	31N	101W		
South Fork	918	9620	23	31N	101W		
South Fork	919	9620	23	31N	101W		
South Fork	920	9620	23	31N	101W		
South Fork	921	9620	23	31N	101W		
South Fork	922	9620	23	31N	101W		
South Fork	923	9620	23	31N	101W		
South Fork	924	9620	23	31N	101W		
South Fork	925	9620	23	31N	101W		
South Fork	926	9620	23	31N	101W		
South Fork	927	9620	23	31N	101W		
South Fork	928	9620	23	31N	101W		
South Fork	929	9620	23	31N	101W		
South Fork	930	9620	23	31N	101W		
South Fork	931	9620	23	31N	101W		
South Fork	932	9620	23	31N	101W		
South Fork	933	9620	23	31N	101W		
South Fork	934	9620	23	31N	101W		
South Fork	935	9620	23	31N	101W		
South Fork	936	9620	23	31N	101W		
South Fork	937	9620	23	31N	101W		
South Fork	938	9620	23	31N	101W		
South Fork	939	9620	23	31N	101W		
South Fork	940	9620	23	31N	101W		
South Fork	941	9620	23	31N	101W		
South Fork	942	9620	23	31N	101W		
South Fork	943	9620	23	31N	101W		
South Fork	944	9620	23	31N	101W		
South Fork	945	9620	23	31N	101W		
South Fork	946	9620	23	31N	101W		
South Fork	947	9620	23	31N	101W		
South Fork	948	9620	23	31N	101W		
South Fork	949	9620	23	31N	101W		
South Fork	950	9620	23	31N	101W		
South Fork	951	9620	23	31N	101W		
South Fork	952	9620	23	31N	101W		
South Fork	953	9620</					

# Agencies Cooperating in Wyoming Snow Surveys

## FEDERAL

U.S. Department of Agriculture  
Forest Service  
Soil Conservation Service

U.S. Department of Commerce  
NOAA, National Weather Service

U.S. Department of Interior  
Bureau of Reclamation  
Geological Survey  
National Park Service  
Indian Service

## STATE

State Engineer of Wyoming

University of Wyoming  
Department of Atmospheric Resources  
Department of Agricultural Engineering

## PRIVATE

Irrigation Districts  
Greybull Valley Irrigation District  
Wheatland Irrigation District

Conservation Districts  
Big Piney  
Big Sandy  
Bridger Valley  
Clearwater  
Cody  
Dubois-Crowheart  
Greybull-Shell  
Lake DeSmet  
LaPrele-Glenrock  
Laramie Rivers  
Lincoln  
Little Snake River  
Medicine Bow  
Pinedale  
Platte County  
Powder River  
Powell-Clarks Fork  
Riverton  
Saratoga-Encampment-Rawlins  
Shoshone  
Teton  
Washakie



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generation, navigation,  
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with the Snow Survey"*